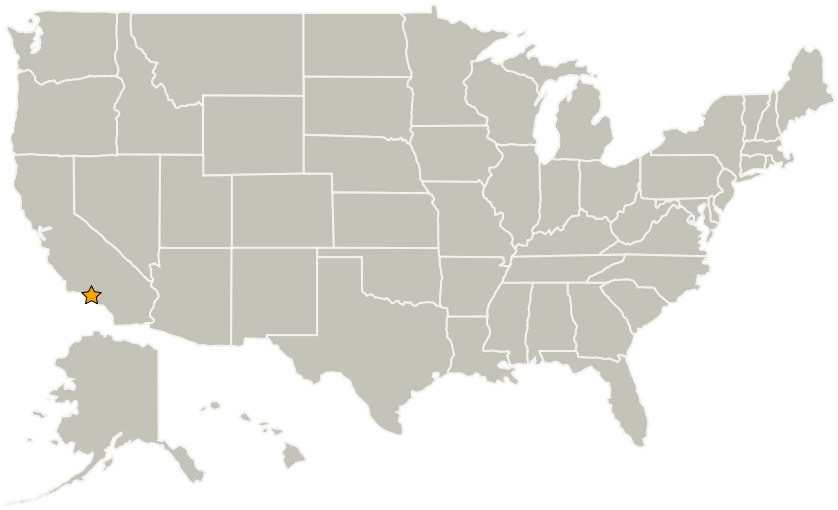
On Sky Observation of Delta doped CCDs

Completed Technology Project (2012 - 2012)

Project Introduction

The objectives of this study are to adapt an existing JPL dewar and electronics for use with the STA device for observation at Palomar using an existing array (expected to have delta doped detectors produced with the MBE RTD), characterize and calibrate the performance of the array and the camera system in the laboratory (iterate), deploy to Palomar for a test run (first light check), and optimize devices and dewar configuration based on feedback.

Primary U.S. Work Locations and Key Partners



Organizations Performing Work	Role	Type	Location
★Jet Propulsion Laboratory(JPL)	Lead Organization	NASA Center	Pasadena, California

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Organizational Responsibility

Responsible Mission Directorate:

Space Technology Mission Directorate (STMD)

Lead Center / Facility:

Jet Propulsion Laboratory (JPL)

Responsible Program:

Center Innovation Fund: JPL CIF

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Project Management

Program Director:

Michael R Lapointe

Program Manager:

Fred Y Hadaegh

Project Manager:

Jonas Zmuidzinas

Principal Investigator:

Shouleh Nikzad

Technology Areas

Primary:

- TX08 Sensors and Instruments
  - TX08.1 Remote Sensing Instruments/Sensors
    - TX08.1.1 Detectors and Focal Planes